

J WEBER

#16 1651

RAW SEQUENCE LISTING

DATE: 08/08/2001

PATENT APPLICATION: US/09/483,543A

TIME: 14:37:09

Input Set : A:\Rockefeller Muir ('543) Sequence Listing.txt

Output Set: N:\CRF3\08082001\I483543A.raw

ENTERED

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4 <110> APPLICANT: Muir, Tom
5   Cotton, Graham
6   The Rockefeller University
8 <120> TITLE OF INVENTION: Multiple Sensor-Containing Polypeptides,
9   Methods of Preparation and Uses Thereof
11 <130> FILE REFERENCE: RU 453
13 <140> CURRENT APPLICATION NUMBER: 09/483,543A
14 <141> CURRENT FILING DATE: 2000-01-14
16 <160> NUMBER OF SEQ ID NOS: 9
18 <170> SOFTWARE: FastSEQ for Windows Version 3.0
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 8
23 <212> TYPE: PRT
24 <213> ORGANISM: Artificial Sequence ✓
26 <220> FEATURE:
27 <223> OTHER INFORMATION: Cleavage Site for PreScission Protease ✓
29 <400> SEQUENCE: 1
30   Leu Glu Val Leu Phe Gln Gly Pro
31   1             5
34 <210> SEQ ID NO: 2
35 <211> LENGTH: 12
36 <212> TYPE: PRT
37 <213> ORGANISM: Artificial Sequence ✓
39 <220> FEATURE:
40 <223> OTHER INFORMATION: Peptide Substrate ✓
42 <400> SEQUENCE: 2
43   Glu Ala Ile Tyr Ala Ala Pro Phe Ala Lys Lys Lys
44   1             5             10
47 <210> SEQ ID NO: 3
48 <211> LENGTH: 64
49 <212> TYPE: DNA
50 <213> ORGANISM: Artificial Sequence
52 <220> FEATURE:
53 <223> OTHER INFORMATION: Primer
55 <400> SEQUENCE: 3
56   aaaagaaaaa aaggcgccg ctcggatctg atcgaagggtc gttgtgcggg caacttcgac
57   tcgg
64 <210> SEQ ID NO: 4
65 <211> LENGTH: 40
66 <212> TYPE: DNA
67 <213> ORGANISM: Artificial Sequence
69 <220> FEATURE:
70 <223> OTHER INFORMATION: Primer
72 <400> SEQUENCE: 4
73   gcaaaactggc tcttcgcag ccgctgaagt cctcatcggg
76 <210> SEQ ID NO: 5
77 <211> LENGTH: 18

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64

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```

78 <212> TYPE: PRT
79 <213> ORGANISM: Artificial Sequence
81 <220> FEATURE:
82 <223> OTHER INFORMATION: Xa-Cys-(Crk-II)-Intein-CBD Construct
84 <400> SEQUENCE: 5
85 Met Ala Ser Ser Arg Val Asp Gly Gly Arg Ser Asp Leu Ile Glu Gly
86   1             5             10             15
87 Arg Cys
90 <210> SEQ ID NO: 6
91 <211> LENGTH: 18
92 <212> TYPE: PRT
93 <213> ORGANISM: Artificial Sequence
95 <220> FEATURE:
96 <223> OTHER INFORMATION: Cys-F1-PS-Biotin Construct
98 <220> FEATURE:
99 <221> NAME/KEY: misc_feature
100 <222> LOCATION: 3/
101 <223> OTHER INFORMATION: Xaa = Lys-[Dapa(F1)]
103 <220> FEATURE:
104 <221> NAME/KEY: misc_feature
105 <222> LOCATION: 17/
106 <223> OTHER INFORMATION: Xaa = [Lys-(Biotin)]
108 <400> SEQUENCE: 6
W--> 109 Cys Gly Xaa Gly Leu Glu Val Leu Phe Gln Gly Pro Val Arg Lys Gly
110   1             5             10             15
W--> 111 Xaa Gly
114 <210> SEQ ID NO: 7
115 <211> LENGTH: 11
116 <212> TYPE: PRT
117 <213> ORGANISM: Artificial Sequence
119 <220> FEATURE:
120 <223> OTHER INFORMATION: High affinity ligand for the N-SH3 Domain of Crk
122 <400> SEQUENCE: 7
123 Pro Pro Pro Ala Leu Pro Pro Lys Arg Arg Arg
124   1             5             10
127 <210> SEQ ID NO: 8
128 <211> LENGTH: 318
129 <212> TYPE: PRT
130 <213> ORGANISM: Artificial Sequence
132 <220> FEATURE:
133 <223> OTHER INFORMATION: Protein Kinase Target
135 <220> FEATURE:
136 <221> NAME/KEY: misc_feature
137 <222> LOCATION: 311/
138 <223> OTHER INFORMATION: Xaa = Lys-[Dapa(F1)]
140 <400> SEQUENCE: 8
141 Lys Arg Gly Cys Ala Gly Asn Phe Asp Ser Glu Glu Arg Ser Ser Trp
142   1             5             10             15
143 Tyr Trp Gly Arg Leu Ser Arg Gln Glu Ala Val Ala Leu Leu Gln Gly

```

RAW SEQUENCE LISTING

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Input Set : A:\Rockefeller Muir \ 54, Sequence Listing.txt
Output Set: N:\CRF3\08082001\1483543A.xdw

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144          20          25          30
145 Gln Arg His Gly Val Phe Leu Val Arg Asp Ser Ser Thr Ser Pro Gly
146          35          40          45
147 Asp Tyr Val Leu Ser Val Ser Glu Asn Ser Arg Val Ser His Tyr Ile
148          50          55          60
149 Ile Asn Ser Ser Gly Pro Arg Pro Pro Val Pro Pro Ser Pro Ala Gln
150          65          70          75          80
151 Pro Pro Pro Gly Val Ser Pro Ser Arg Leu Arg Ile Gly Asp Gln Glu
152          85          90          95
153 Phe Asp Ser Leu Pro Ala Leu Leu Glu Phe Tyr Lys Ile His Tyr Leu
154          100          105          110
155 Asp Thr Thr Thr Leu Ile Glu Pro Val Ala Arg Ser Arg Gln Gly Ser
156          115          120          125
157 Gly Val Ile Leu Arg Gln Glu Glu Ala Glu Tyr Val Arg Ala Leu Phe
158          130          135          140
159 Asp Phe Asn Gly Asn Asp Glu Glu Asp Leu Pro Phe Lys Lys Gly Asp
160          145          150          155          160
161 Ile Leu Arg Ile Arg Asp Lys Pro Glu Glu Gln Trp Trp Asn Ala Glu
162          165          170          175
163 Asp Ser Glu Gly Lys Arg Gly Met Ile Pro Val Pro Tyr Val Glu Lys
164          180          185          190
165 Tyr Arg Pro Ala Ser Ala Ser Val Ser Ala Leu Ile Gly Gly Asn Gln
166          195          200          205
167 Glu Gly Ser His Pro Gln Pro Leu Gly Gly Pro Glu Pro Gly Pro Tyr
168          210          215          220
169 Ala Gln Pro Ser Val Asn Thr Pro Leu Pro Asn Leu Gln Asn Gly Pro
170          225          230          235          240
171 Ile Tyr Ala Arg Val Ile Gln Lys Arg Val Pro Asn Ala Tyr Asp Lys
172          245          250          255
173 Thr Ala Leu Ala Leu Glu Val Gly Glu Leu Val Lys Val Thr Lys Ile
174          260          265          270
175 Asn Val Ser Gly Gln Trp Glu Gly Glu Cys Asn Gly Lys Arg Gly His
176          275          280          285
177 Phe Pro Phe Thr His Val Arg Leu Leu Asp Gln Gln Asn Pro Asp Glu
178          290          295          300
W--> 179 Asp Phe Ser Gly Cys Gly Xaa Gly Leu Glu Val Leu Phe Gln
180          305          310          315

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190 <210> SEQ ID NO: 9

191 <211> LENGTH: 326

192 <212> TYPE: PRT

193 <213> ORGANISM: Artificial Sequence

195 <220> FEATURE:

196 <223> OTHER INFORMATION: Recombinant Intermediate

198 <220> FEATURE:

199 <221> NAME/KEY: misc_feature

200 <222> LOCATION: 311

201 <223> OTHER INFORMATION: Xaa = Lys-[Dapa(Fl)]

203 <220> FEATURE:

204 <221> NAME/KEY: misc_feature

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Output Set: N:\CRF3\08082001\I483543A.raw

```

205 <222> LOCATION: 325
206 <223> OTHER INFORMATION: Xaa = [Lys-(Biotin)]
208 <400> SEQUENCE: 9
209 Lys Arg Gly Cys Ala Gly Asn Phe Asp Ser Glu Glu Arg Ser Ser Trp
210 1 5 10 15
211 Tyr Trp Gly Arg Leu Ser Arg Gln Glu Ala Val Ala Leu Leu Gln Gly
212 20 25 30
213 Gln Arg His Gly Val Phe Leu Val Arg Asp Ser Ser Thr Ser Pro Gly
214 35 40 45
215 Asp Tyr Val Leu Ser Val Ser Glu Asn Ser Arg Val Ser His Tyr Ile
216 50 55 60
217 Ile Asn Ser Ser Gly Pro Arg Pro Pro Val Pro Ser Pro Ala Gln
218 65 70 75 80
219 Pro Pro Pro Gly Val Ser Pro Ser Arg Leu Arg Ile Gly Asp Gln Glu
220 85 90 95
221 Phe Asp Ser Leu Pro Ala Leu Leu Glu Phe Tyr Lys Ile His Tyr Leu
222 100 105 110
223 Asp Thr Thr Thr Leu Ile Glu Pro Val Ala Arg Ser Arg Gln Gly Ser
224 115 120 125
225 Gly Val Ile Leu Arg Gln Glu Glu Ala Glu Tyr Val Arg Ala Leu Phe
226 130 135 140
227 Asp Phe Asn Gly Asn Asp Glu Glu Asp Leu Pro Phe Lys Lys Gly Asp
228 145 150 155 160
229 Ile Leu Arg Ile Arg Asp Lys Pro Glu Glu Gln Trp Trp Asn Ala Glu
230 165 170 175
231 Asp Ser Glu Gly Lys Arg Gly Met Ile Pro Val Pro Tyr Val Glu Lys
232 180 185 190
233 Tyr Arg Pro Ala Ser Ala Ser Val Ser Ala Leu Ile Gly Gly Asn Gln
234 195 200 205
235 Glu Gly Ser His Pro Gln Pro Leu Gly Gly Pro Glu Pro Gly Pro Tyr
236 210 215 220
237 Ala Gln Pro Ser Val Asn Thr Pro Leu Pro Asn Leu Gln Asn Gly Pro
238 225 230 235 240
239 Ile Tyr Ala Arg Val Ile Gln Lys Arg Val Pro Asn Ala Tyr Asp Lys
240 245 250 255
241 Thr Ala Leu Ala Leu Glu Val Gly Glu Leu Val Lys Val Thr Lys Ile
242 260 265 270
243 Asn Val Ser Gly Gln Trp Glu Gly Glu Cys Asn Gly Lys Arg Gly His
244 275 280 285
245 Phe Pro Phe Thr His Val Arg Leu Leu Asp Gln Gln Asn Pro Asp Glu
246 290 295 300
W--> 247 Asp Phe Ser Gly Cys Gly Xaa Gly Leu Glu Val Leu Phe Gln Gly Pro
248 305 310 315 320
W--> 249 Val Arg Lys Gly Xaa Gly
250 325

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VERIFICATION SUMMARY

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Input Set : A:\Rockefeller Muir ('543) Sequence Listing.txt

Output Set: N:\CRF3\08082001\I483543A.raw

L:109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6

L:111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6

L:179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8

L:247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9

L:249 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9

o K